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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,568	08/18/2003	Ludwig Schmidmaier	P69057US0	2981
7590 06/24/2004			EXAMINER	
Jacobson Holman			SINGH, SUNIL	
Professional Limited Liability Company 400 Seventh Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20004-2218			3673	
			DATE MAILED: 06/24/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) SCHMIDMAIER ET AL. 10/642,568 Office Action Summary **Examiner Art Unit** Sunil Singh 3673 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address **Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on _____. 2a) This action is FINAL. 2b) ☐ This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Priority under 35 U.S.C. § 119

12) 🛭 Ackno	wledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All	b) ☐ Some * c) ☐ None of:
1.⊠	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date 3/30/04.	6) [] Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watchorn or Ishii or Hebant (US 1650103,3565190,5516237) or Canadian document (CA 967770) or British document (GB 2355750) or Japanese documents (7-42469, 08082186, 2001-3363) in view of Frisk et al. (US 4908,101). Watchorn, Ishii, Hebant (US 1650103,3565190,5516237), Canadian document (CA 967770), British document (GB 2355750) and Japanese documents (7-42469, 08082186, 2001-3363) all disclose a casing and auger wherein they are rotated in opposite directions. However, they all are silent about the auger's helix having increased surface roughness in the feed direction. Frisk et al. teaches an auger's helix having increased surface roughness in the feed direction ((25), see Figs. 5-6C). It would have been considered obvious to one of ordinary skill in the art to modify either Watchorn or Ishii or Hebant (US 1650103,3565190,5516237) or Canadian document (CA 967770) or British document (GB 2355750) or Japanese documents (7-42469, 08082186, 2001-3363) to include increased surface roughness in the feed direction of their respective auger's helix as taught by Frisk et al. since such an arrangement facilitates the augering process.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil Singh whose telephone number is (703) 308-4024. The examiner can normally be reached on Monday through Friday 8:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Shackelford can be reached on (703) 308-2978. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sunil Singh

Patent Examiner Art Unit 3673

SS *S*S 6/16/2004